

Installing the ProModeTool.apk app

This chapter we will install the "ProModeTool.apk" file we just extracted from the firmware.

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Getting ADB tools ready

Getting the android platform-tools

To install the apk file, we have now for "ProModeTool" we have to install it over ADB (Android Debug Bridge).

To do this you need to download the adb tool to your computer, instructions for both Windows and Linux are below.

Windows:

Windows: <https://developer.android.com/tools/releases/platform-tools>

Then click on the "Download SDK Platform-Tools for Windows" button under "Downloads".

SDK Platform Tools release notes

Android SDK Platform-Tools is a component for the Android SDK. It includes tools that interface with the Android platform, primarily `adb` and `fastboot`. Although `adb` is required for Android app development, app developers will normally just use the copy Studio installs. This download is useful if you want to use `adb` directly from the command-line and don't have Studio installed. (If you do have Studio installed, you might want to just use the copy it installed because Studio will automatically update it.) `fastboot` is needed if you want to unlock your device bootloader and flash it with a new system image. This package used to contain `systrace`, but that has been obsoleted in favor of Studio Profiler, `gpustpector.dev`, or Perfetto.

Although some new features in `adb` and `fastboot` are available only for recent versions of Android, they're backward compatible, so you should only need the latest version of the SDK Platform-Tools and should file bugs if you find exceptions.

Downloads

If you're an Android developer, you should get the latest SDK Platform-Tools from Android Studio's [SDK Manager](#) or from the `sdkmanager` command-line tool. This ensures the tools are saved to the right place with the rest of your Android SDK tools and easily updated.

But if you want just these command-line tools, use the following links:

- [Download SDK Platform-Tools for Windows](#)
- [Download SDK Platform-Tools for Mac](#)
- [Download SDK Platform-Tools for Linux](#)

Although these links do not change, they always point to the most recent version of the tools.

Now that you have downloaded `adb`, we need to extract the `.zip` file for it.

After you extracted the `.zip` file you need to open a cmd prompt in the directory of `adb` like we did earlier when we opened Command Prompt to extract the firmware in file explorer.

Linux:

Linux: You can install `adb` with your package manager for your distro.

All commands listed below, you need to type in your terminal for your distro.

For Debian/Ubuntu based systems: `sudo apt update && sudo apt install android-sdk-platform-tools-common`

For Fedora based systems: `sudo dnf update && sudo dnf install android-tools`

For Gentoo: `sudo emerge --sync && sudo emerge -av dev-util/android-tools`

For arch based systems: `sudo pacman -Syy && sudo pacman -S android-tools`

Ok now that we have adb installed we can continue to side load the application.

Installing the APK

Connecting to the TV

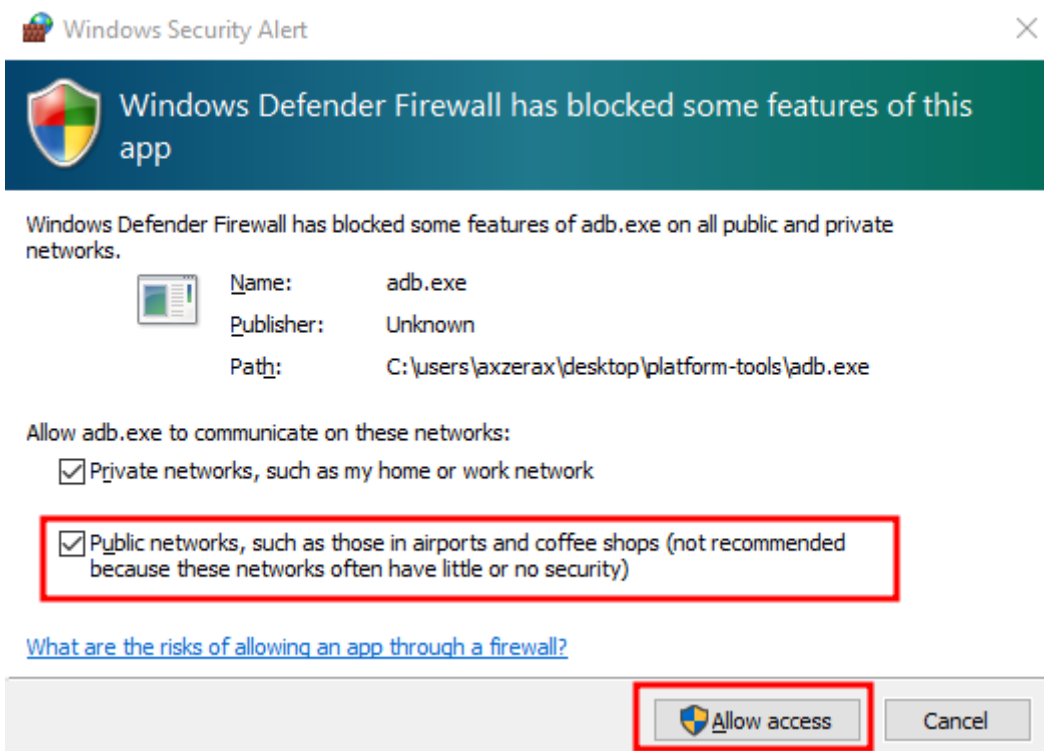
Now for both Operating Systems, the command is similar to each other.

First we need to connect to the TV over adb.

Windows:

Windows: Type this in Command Prompt: `adb.exe connect Your-TV-IP` (Replace "Your-TV-IP" with the TV's IP we got earlier.)

You may get a firewall notice to allow adb, you need to allow it. Example below.



Linux:

Linux: Type this in your terminal: `adb connect Your-TV-IP` (Replace "Your-TV-IP" with the TV's IP we got earlier.)

You also may need to allow this in your firewall, you can search this up for whatever firewall you're using.

Allowing the computer to connect

Now it will say that it's starting its daemon and not connect. So to make it connect, on your TV screen it will have a message on it, saying something like "Allow USB debugging".

You need to check the option to "Always allow from this computer" or it will keep coming up. Then click "ok".

Then type the same command above again and it should say something like "Already connected to <IP-of-your-tv>". Which means we are connected now, great!

Side-loading ProModeTool.apk

Now we can go ahead and side-load the .apk file for "ProModeTool". So to do this type this command in your terminal depending on your Operating System below.

On Windows: drag the folder called "ProModeTool" to the directory where adb is.

On Linux: Open your terminal to where the "ProModeTool" folder is or cd to that location.

Windows: `adb.exe install ProModeTool\ProModeTool.apk`

Linux: `adb install ProModeTool/ProModeTool.apk`

It should say "Performing streamed install" and then it should return no errors when finished.

And that's it for installing the tool.